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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/901,910	07/11/2001	. Haodong Li	PF126P2	7856	
22195	7590 05/15/2003		•		
HUMAN GENOME SCIENCES INC 9410 KEY WEST AVENUE ROCKVILLE, MD 20850			EXAMINER		
			GIBBS, TERRA C		
			ART UNIT	PAPER NUMBER	
~7			1635	9	
•			DATE MAILED: 05/15/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application N	0.	Applicant(s)			
	09/901,910		LI ET AL.			
Office Action Summary	Examiner					
	Terra C. Gibbs	;	1635			
The MAILING DATE of this commun Period for Reply	ication appears on the co	er sheet with the o	correspondence ad	ldress		
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUN - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm - If the period for reply specified above is less than thirty (3) - If NO period for reply is specified above, the maximum st - Failure to reply within the set or extended period for reply - Any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b). Status	ICATION. of 37 CFR 1.136(a). In no event, he nunication. a) days, a reply within the statutory attutory period will apply and will exp will, by statute, cause the application.	owever, may a reply be tir minimum of thirty (30) day ire SIX (6) MONTHS from n to become ABANDONE	nely filed /s will be considered time the mailing date of this of (D) (35 U.S.C. § 133).	ly. ommunication.		
1) Responsive to communication(s) fi	led on					
2a) ☐ This action is FINAL .	2b) ☐ This action is non	-final.				
Since this application is in condition closed in accordance with the practice Disposition of Claims	n for allowance except for tice under <i>Ex parte Quay</i>	formal matters, p le, 1935 C.D. 11,	rosecution as to the 453 O.G. 213.	ne merits is		
4)⊠ Claim(s) <u>1-27</u> is/are pending in the	application.					
4a) Of the above claim(s) is/a	re withdrawn from consid	eration.				
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-27</u> are subject to restricti	on and/or election require	ement.				
Application Papers 9) The specification is objected to by th	o Evaminor					
10) The drawing(s) filed on is/are:		acted to by the Eva	ıminer			
Applicant may not request that any ob						
11) The proposed drawing correction file		-				
If approved, corrected drawings are re			. ,			
12) The oath or declaration is objected to						
Priority under 35 U.S.C. §§ 119 and 120	·					
13) Acknowledgment is made of a claim	n for foreign priority under	35 U.S.C. § 119(a	a)-(d) or (f).			
a) All b) Some * c) None of:		•				
1. ☐ Certified copies of the priority	documents have been re	ceived.				
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies application from the Interr See the attached detailed Office actic	national Bureau (PCT Rul	e 17.2(a)).		Stage		
14) Acknowledgment is made of a claim f		•		l application).		
a) ☐ The translation of the foreign lar 15)☐ Acknowledgment is made of a claim	nguage provisional applic	ation has been red	ceived.	,		
Attachment(s)	tor domestic priority dride	1 00 0.0.0. 33 120	J GHU/OF TET.			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (Fa) 3) Information Disclosure Statement(s) (PTO-1449) F			y (PTO-413) Paper No Patent Application (P1			
S. Patent and Trademark Office TO-326 (Rev. 04-01)	Office Action Summary		Part of Paper No. 9			

DETAILED ACTION

Claims 1-27 are pending in the instant application.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-14, drawn to a method of stimulating angiogenesis in a mammal, comprising the administration of a polynucleotide encoding CTGF-2, or an active fragment or derivative thereof, classifiable in class 435, subclass 6.
- II. Claims 15-23, drawn to a method of stimulating angiogenesis in a mammal, comprising the administration of a CTGF-2 polypeptide, or an active fragment or derivative thereof, classifiable in class 435, subclass 4.
- III. Claim 24, drawn to a method of inhibiting tumor growth by administering an antibody or antibody fragment that bind to CTGF-2, classifiable in class 424, subclass 130.1⁺.
- IV. Claims 25 and 26, drawn to an antibody or antibody fragment that binds to a protein whose sequence consists of the protein encoded by the cDNA contained in ATCC Deposit No. 75804 or SEQ ID NO: 2, classifiable in class 424, subclass 130.1.
- V. Claim 27, drawn to an antibody or antibody fragment that binds to a protein whose sequence consists of SEQ ID NO: 7, classifiable in class 424, subclass 130.1.

The inventions are distinct, each from the other because of the following reasons:

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Although the methods of Groups I and II are related because they encompass a method of stimulating angiogenesis in a mammal, they are patentably distinct from each other. Although there are no provisions under the section for "Relationship of Inventions" in MPEP 806.05 for inventive groups that are directed to related methods, restriction is deemed to be proper because these method constitute patentably distinct inventions for the following reasons: They employ different molecules with different chemical and physical structures so that independent searches of the prior art would be required that would constitute a serious burden on the Examiner. For example, a search of the polynucleotide encoding CTGF-2, or an active fragment or derivative thereof of Group I would not encompass all of the art relevant to the CTGF-2 polypeptide, or an active fragment or derivative thereof of Group II. They are materially distinct methods, which differ in reagents and/or dosages and/or schedules used, response variables, and criteria for success. The differences between Inventions I and II are further underscored by their different classifications and independent search status. Thus, they are unrelated and patentably distinct from each other.

Inventions of Groups I and III are unrelated, each from the other. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the inventions of Groups I and III are unrelated and distinct because they employ different molecules with different chemical and physical structures so that independent searches of the prior art would be required that would constitute a serious burden on the Examiner. For example, a search of the polynucleotide encoding CTGF-2, or an active fragment or derivative thereof of Group I would not encompass all of the art relevant to the

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antibody or antibody fragment that bind to CTGF-2 of Group III. They are materially distinct methods, which differ in reagents and/or dosages and/or schedules used, response variables, and criteria for success. The differences between Inventions I and III are further underscored by their different classifications and independent search status. Thus, they are unrelated and patentably distinct from each other.

Inventions of Groups II and III are unrelated, each from the other. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the inventions of Groups II and III are unrelated and distinct because they employ different molecules with different chemical and physical structures so that independent searches of the prior art would be required that would constitute a serious burden on the Examiner. For example, a search of the CTGF-2 polypeptide, or an active fragment or derivative thereof of Group II would not encompass all of the art relevant to the antibody or antibody fragment that bind to CTGF-2 of Group III. They are materially distinct methods, which differ in reagents and/or dosages and/or schedules used, response variables, and criteria for success. The differences between Inventions II and III are further underscored by their different classifications and independent search status. Thus, they are unrelated and patentably distinct from each other.

The invention of Group IV is related to the method invention of Group III as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different

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process of using that product (MPEP § 806.05(h)). In the instant case, the products can be used in materially different processes of use. For example, the antibody or antibody fragment that binds to a protein whose sequence consists of the protein encoded by the cDNA contained in ATCC Deposit No. 75804 or SEQ ID NO: 2 of Group IV can be used to identify CTGF-2 protein expression in mammalian cells, which is a materially different process than a method of inhibiting tumor growth by administering an antibody or antibody fragment that bind to CTGF-2 as in Group III.

The invention of Group V is related to the method invention of Group III as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the products can be used in materially different processes of use. For example, the antibody or antibody fragment that binds to a protein whose sequence consists of SEQ ID NO: 7 of Group IV can be used to identify alternative forms of CTGF-2 protein expression in mammalian cells, which is a materially different process than a method of inhibiting tumor growth by administering an antibody or antibody fragment that bind to CTGF-2 as in Group III.

Inventions of Groups IV and V are unrelated, each from the other. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the inventions of Groups IV and V are unrelated and distinct because they are different molecules with different chemical and physical structures so that

independent searches of the prior art would be required that would constitute a serious burden on the Examiner. For example, a search of the antibody or antibody fragment that binds to a protein whose sequence consists of the protein encoded by the cDNA contained in ATCC Deposit No.

whose sequence consists of the protein encoded by the cDNA contained in ATCC Deposit No. 75804 or SEQ ID NO: 2 of Group IV would not encompass all of the art relevant to the antibody or antibody fragment that binds to a protein whose sequence consists of SEQ ID NO: 7 of Group V. They are materially distinct compositions since SEQ ID NO: 7 is an alternative cDNA sequence of CTGF-2 and the protein encoded by the cDNA contained in ATCC Deposit No.

75804 or SEQ ID NO: 2 are the actual cDNA sequence of CTGF-2. Thus, they are unrelated and patentably distinct from each other.

Claims 13 and 23 are generic to a plurality of disclosed patentably distinct species consisting of saline, dextrose, water, glycerol, ethanol, and combinations of saline, dextrose, water, glycerol, and ethanol. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and have acquired a separate

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status in the art because of their recognized divergent subject matter, restriction for examination

purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an

election of the invention to be examined even though the requirement be traversed (37

CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a petition under 37

CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Terra C. Gibbs whose telephone number is (703) 306-3221. The

examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor. John L. LeGuyader can be reached on (703) 308-0447. The fax phone numbers for

the organization where this application or proceeding is assigned are (703) 308-4242 for regular

communications and (703) 872-9307 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0196.

tcg

May 10, 2003

PAM SHUKLA
POWARY EXAMINER

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